

**APPENDIX B**

**PENDING CLAIMS**

17. (Once amended) A method of recovering factor VIII/von Willebrand factor-complex (factor VIII/vWF-complex) comprising:
- (a) providing a factor VIII/vWF-complex containing protein solution,
  - (b) providing a cation exchanger,
  - (c) binding said factor VIII/vWF-complex of said protein solution on said cation exchanger, and
  - (d) eluting factor VIII/vWF-complex from said cation exchanger by a step-wise elution process to recover factor VIII/vWF-complex containing high-molecular weight vWF multimers.
18. (Once amended) A method as set forth in claim 17, wherein said factor VIII/vWF-complex is bound to said cation exchanger at a salt concentration of  $\leq 250$  mM and factor VIII/vWF-complex containing low-molecular weight vWF multimers, factor VIII free from platelet agglutinating vWF activity, and factor VIII:C is eluted and recovered at a salt concentration of between  $\geq 250$  mM and  $\leq 300$  mM.
19. (Once amended) A method as set forth in claim 17, wherein said eluting step comprises eluting said factor VIII/vWF-complex containing high-molecular weight vWF multimers at a salt concentration of  $\geq 300$  mM.
20. (Once amended) A method as set forth in claim 17, wherein said eluting step comprises eluting said factor VIII/vWF-complex containing high-molecular weight vWF multimers at a salt concentration of  $\geq 350$  mM.

21. (Once amended) A method as set forth in claim 19, wherein said recovered factor VIII/vWF-complex is a factor VIII/vWF complex-containing fraction free from low-molecular vWF multimers, vWF degradation products, non complexed factor VIII, and is substantially free of contaminating nucleic acids.

22. A method as set forth in claim 17, wherein said elution of factor VIII/vWF complex from said cation exchanger is carried out in a buffer system having a pH ranging between 4.5 and 8.5.

23. A method as set forth in claim 22, wherein said pH of said buffer system is  $\geq 7.1$  and  $\leq 8.5$ .

24. A method as set forth in claim 17, wherein said cation exchanger is sulfopropyl-group conjugated carrier or a carboxymethyl-group conjugated carrier.

25. (Once amended) A method as set forth in claim 17, wherein said factor VIII/vWF-complex-containing protein solution is selected from the group consisting of a plasma, a plasma fraction, a cryoprecipitate, a cell-free supernatant of a recombinant cell culture, an extract of a recombinant cell culture, and a protein fraction enriched in factor VIII/vWF-complex.

26-37. Withdrawn as directed to non-elected invention.

38. (New) A method as set forth in claim 18, wherein said eluting step comprises eluting said factor VIII/vWF-complex containing high-molecular weight vWF multimers at a salt concentration of  $\geq 300$  mM.

39. (New) A method as set forth in claim 18, wherein said eluting step comprises eluting said factor VIII/vWF-complex containing high-molecular weight vWF multimers at a salt concentration of  $\geq 350$  mM.